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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/803,587	03/17/2004	Ken Umeno	30390-14	6148
	7590 11/16/200 ARD, HAMILTON &	EXAMINER		
11988 EL CAN	IINO REAL, SUITE 2	MAI, TAN V		
SAN DIEGO, CA 92130			ART UNIT	PAPER NUMBER
			2193	
			MAIL DATE	DELIVERY MODE
			11/16/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

141

			Application	No.	Applicant(s)				
Office Action Summary		10/803,587		UMENO, KEN					
			Examiner		Art Unit				
			Tan V. Mai		2193				
Period fo	The MAILING DATE of this commun or Reply	nication appe	ears on the c	over sheet with the c	orrespondence ad	Idress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)⊠	Responsive to communication(s) filed on 14 September 2004.								
2a) <u></u>	This action is FINAL .	2b) This a	action is nor	n-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)⊠	4)⊠ Claim(s) <u>1-27</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	5) Claim(s) is/are allowed.								
6)⊠	Claim(s) <u>1-27</u> is/are rejected.								
7)	Claim(s) is/are objected to.			•					
8)□	Claim(s) are subject to restrict	ction and/or	election rec	uirement.					
Applicati	on Papers		,						
9) The specification is objected to by the Examiner.									
10)	The drawing(s) filed on is/are	: a) <u>□</u> acce _l	pted or b)	objected to by the E	Examiner.				
	Applicant may not request that any obje	ection to the d	rawing(s) be	held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority (ınder 35 U.S.C. § 119				•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a) ☐ All b) ☐ Some * c) ☐ None of:									
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.									
			-						
Attachment(s)									
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)									
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application						O-152)			
· —	r No(s)/Mail Date <u>11/2/07</u> .	1110/36/06)	_)		,			

Application/Control Number: 10/803,587 Page 2

Art Unit: 2193

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 27 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claim recites a "program product ..." for performing a mathematical function.

"[t]o satisfy section 101 requirements, the claim must be for a practical application of the Sec. 101 judicial exception, which can be identified in various ways:

- . The claimed invention "transforms" an article or physical object to a different state or thing.
- . The claimed invention otherwise produces a useful, concrete and tangible result,...".

See "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility" OG Date: 22 November 2005.

In order for claims to be statutory, claims must include a practical application with a concrete, useful, and tangible result. However, claim 27 merely discloses steps of performing mathematical function <u>without disclosing</u> a practical application with a concrete, useful, and tangible result, as they are pre-emptive in any application.

Therefore, claim 27 is directed to non-statutory subject matter.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Umeno EP 1 289 186 A2 (Applicant's admission Prior Art) in view of Fengchai, "Improve

Application/Control Number: 10/803,587

Art Unit: 2193

on Dynamic Pseudo-random Sequence Encrypting Method and Application Thereof" (Applicant's admission Prior Art).

Umeno discloses, e.g., see Fig. 1, the invention substantially as claimed, including: key accepting unit (103), generating unit (102), repetition controller (104), data accepting unit (105), and converting unit (106). It is noted that Umeno does not specifically detail the claimed "rotation section" feature; however, the feature is old and well known in the art. For example, Fengchai discloses in "Improve on Dynamic Pseudo-random Sequence Encrypting Method and Application Thereof" a "circularly left-shifted by n bits" feature. Therefore, the feature is considered equivalent function with the claimed "rotation section" feature. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to combine "circularly left-shifted by n bits" in Umeno, thereby making the claimed invention, because the proposed device is random sequence generating apparatus having "rotation section" feature as claimed.

- 4. Due to the NEW grounds of rejection(s), the Office Action is made NON-FINAL.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan V. Mai whose telephone number is (571) 272-3726. The examiner can normally be reached on Mon-Wed and Fri. from 9:30am to 2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An, can be reached on (571) 272-3756. The fax phone number for

Application/Control Number: 10/803,587

Art Unit: 2193

the organization where this application or proceeding is assigned is:

Official

(571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2100.

Tan V. Mai Primary Examiner

Page 4